Abstract

A method and computer-executable program is disclosed for graphically rendering information of a database which can be arranged in form of a table, and for extraction associations between database records. An element and/or an arithmetic expression computed from the records in the database can be associated with a graphic representation consisting of instructions, such as setting a fill color, drawing a rectangle, and so on. Graphic renditions can include tables, histograms, bar charts, timeline displays, pie charts, and tree maps, as well as combinations of such displays. The proposed visualization-rendering method is flexible and computationally fast, since at most $O(N)$ graphic instructions need to be generated for a database of N records.